PROJECT DESCRIPTION

i. GENERA

This project involves the modification of the existing traffic control signal at the intersection of MD 210 (Indian Head Highway) and Livingston Road/Swan Creek Road in Prince George's County, Maryland. MD 210 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection presently operates in a NEMA six (6) phase, full-traffic-actuated mode. There are exclusive left turn phases for both the north and southbound movements of MD 210. The MD 210 through movements operate concurrently. The Livingston Road/Swan Creek Road movements operate in a side street split mode.

The existing eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, and 4-channel rack mounted detction will be relocated to a new base mounted cabinet. Video camera detection equipment shall be installed.

The existing phasing shall remain.

EQUIPMENT LIST

A.	Approved S.H.A. equipment to be purchased by the Developer and installed by the
	Contractor. All equipment in this list shall have catalog cuts submitted for approval
	prior to installation.

Mr. Augie Rebish

301-513-7300

Mr. Randy Brown

Mr. Richard L. Daff

8300 Old Marlboro Pike

301-513-7300

410-787-7630

301-670-8740

Assistant District Engineer - Utility

Chief, Traffic Operations Division

Upper Mariboro, Maryland 20722

Assistant District Engineer - Maintenance

The Power Company Representative is:

Potomac Electricand Power Company

prior to ii	nstallation.			• •			,, ,	
uantity	Units	Specification Section	Description	Quantity	Units	Specification Section	Description	
1	EA	818	12 in. x 32 ft. 2-ply steelstrain pole	Lump Sum	LS	108	Mobilization.	
1	EA	816	Standard S.H.A. traffic signal base mounted cabinet	Lump Sum	LS	104	Maintenance of traffic.	
			with video detection equipment [Note: Cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650].	2	CY	205	Test pit excavation.	
				7	EA	811	Handhole.	
4	EA		Video camera detection (To include four necessary cable for instalation) One cable at 400 ft., two cables at 250 ft., and one cable at 200 ft.	340	LF	815	Sawcut for signal loop detector.	
				910	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.	
3	EA	814	12 in., one-way, three section (R,Y,G) adjustable traffic signal head with span wire mounting hardware and tunnel visors.	15	LF	810	1 in. liquid tight flexible conduit for detector sleeve.	
				400	LF	810	2 conductor tray cable (No.12 A.W.G.)	
2	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable traffic signal head with span wire mounting hardware and tunnel visors.	640	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).	
				1400	LF	810	5-conductor electrical cable (No. 14 A.W.G.).	
2	EA	814	12 in., one-way, four section (R,Y,G,GA) adjustable traffic signal head with span wire mounting hardware and tunnel visors.	820	LF	810	7-conductor electrical cable (No. 14 A.W.G.).	
				50	LF	810	3-wire (No. 4 A.W.G.) electrical cable.	
2	EA	813	30 in. x 36 in. R 3-5(R) sign with span wire mounting hardware.	315	LF	810	3-M Opticom Detector cable.	
1	ΕA	813	30 in. x 36 in. R 3-5(L) sign with span wire mounting hardware.	40	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).	
1	EA	813	30 in. x 36 in. R 3-6(L) sign with span wire mounting hardware.	325	LF	819	⅓in. steel span wire.	
1	EA	813	30 in. x 30 in. R 1-1 sign for ground mounting.	270	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.	
2	EA	813	16 in. x 96 in. D-3(1) {Dual Faced} sign with span wire mounting hardware.	225	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit -bored.	
8	EA		Non-invasive probe (set of 3) with 750 ft. lead-in cable.	25	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.	
1	EA	806	20 ft. luminarie arm.	140	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.	
1	EA	806	250 W H.P.S. lamp and luminaire.	25	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.	
				5.90	CY	801	Concrete foundation for traffic signal equipment.	
				3	EA	804	Ground rod -¾in. diameter x 10 ft. length.	
				1	EA	807	Control and distribution equipment (120/240 V, one phase, three wire system) for a type B-14 overhead electrical service.	
				205	EA	556	24 in. wide HAPPTPM - white for stop line.	
			;	2	EA		Temporary backguy.	
				18	LF	813	4 in. x 4 in. wood sign support.	
	CONTACT LIST			Lump Sum	LS		Relocate existing opticom detectors and other signal equipment.	
	The	The contact persons for District *3 are as follows:			LS		Remove existing traffic signal equipment.	
		Majid Shakib	Total	Lump Sum	LS		Relocate existing Interconnect cable (approx. 150 ft.).	
		Assistant District Engineer – Traffic 301–513–7300			LS		As-built for S.H.A [on CADD].	
		Access District						

C. Existing equipment to be removed by the Contractor and delivered to the MDSHA Office of Traffic and Safety, Traffic Operations Division, Traffic Signal Shop, 7491 Connelley Drive, Hanover MD, 21076. A twenty-four (24) hour notice is required prior to delivery. Please contact Mr. Ed Rodenhizer at (410) 787-7650.

Quantity Units Description

1 EA Base mounted cabinet.

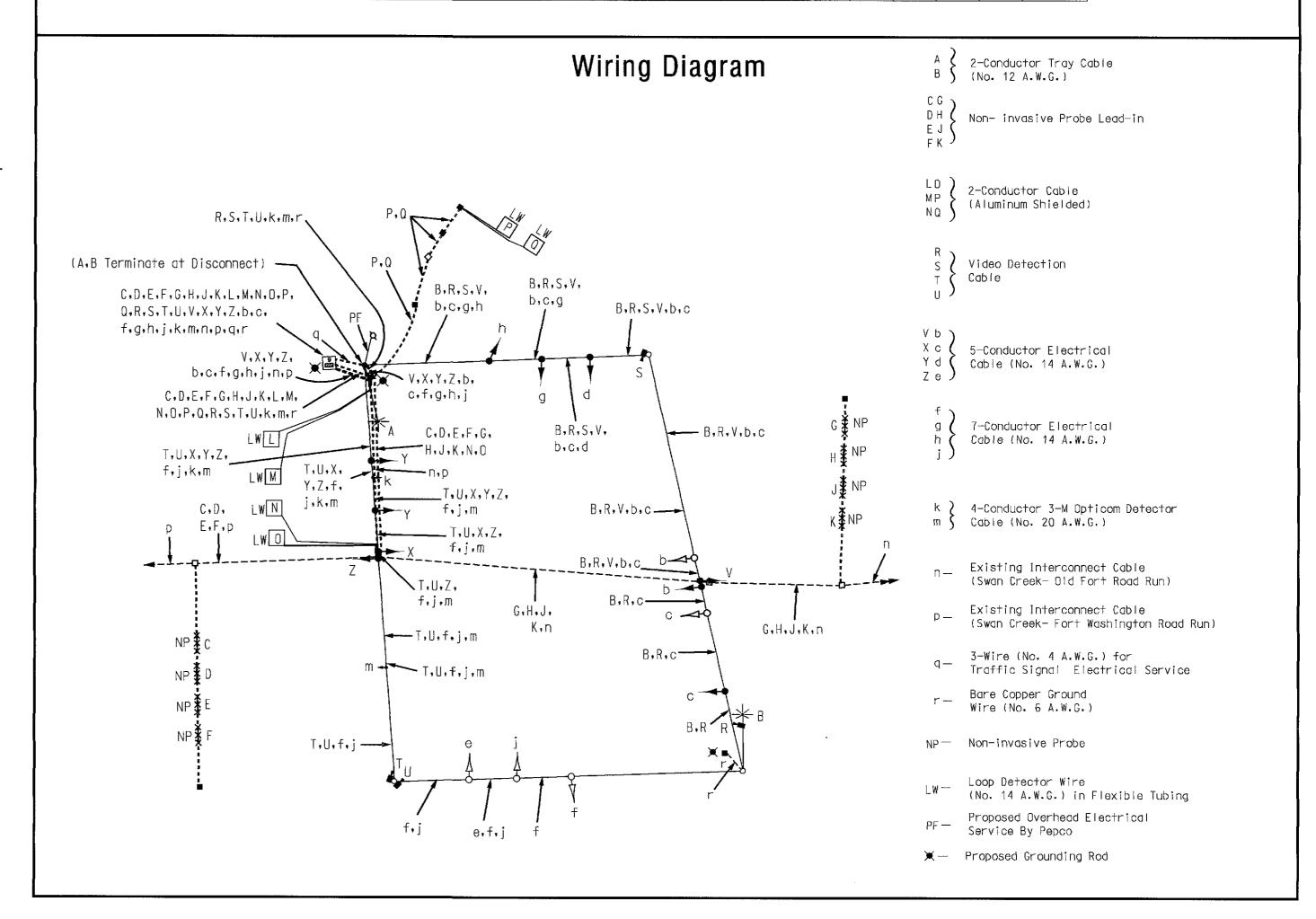
B. Equipment to be furnished and installed by the Contractor.

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Note. All equipment and/or material not listed above shall become the property of the Contractor.

(R) Y) (G) (G) R Y G G Phase 1 & 5 1 % 5 Change to Phase 1 % 6 or Phase 2 % 5 or Phase 2 % 6 1 Change Phase 2 & 5 | -R - | -R - | R | R | -Y - | -Y - | -Y - |5 Change Phase 2 & 6 R - R - G G G R - R - R - R - R2 & 6 Change -R--R- Y Y -R--R- Y Phase 3 3 Change Phase 4 GRRR | - R - | - R - | R | R | R | Y | YRRRR 4 Change | ←FL/ | ←FL/ | ←FL/ | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | FL/R |

Phase Chart





MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TDAFFIC ENCINEEDING DESIGN DIVISION

TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)

MD 210 (Indian Head Hwy.) at Livingston Rd./ Swan Creek Rd.

DRAWN BY: FI	rank Hoeckel	F.A.P. NO.	N/A	TS NO.	
CHECKED BY:_		S.H.A. NO.	BW996M82	1179F	SHEET NO.
SCALE: N	/A	COUNTY:	Prince George's	T.I.M.S. NO.	,
DATE: A	pril 18, 2002	LOG MILE:	160210007.77	D-025	2_ OF2_